

CLAIMS

What is claimed is:

1. A method of sensing multiple parameters comprising:
implanting an implantable sensor at a single site in a patient, the implantable sensor having a housing within which are disposed a plurality of implantable sensing elements; and
reading an output from at least one of the implantable sensing elements,
wherein a plurality of parameters are read from the implantable sensor at the single site, and
wherein the output read from at least one of the implantable sensing elements is a quantifiable value.
2. The method of Claim 1, wherein at least one of the implantable sensing elements is a biological parameter sensor.
3. The method of Claim 1, wherein at least one of the implantable sensing elements is a physiological parameter sensor.
4. The method of Claim 1, wherein at least one of the implantable sensing elements is an analyte sensor.
5. The method of Claim 1, wherein reading an output from at least one of the implantable sensing elements comprises reading an output from an implantable sensing element that responds to lactate.
6. The method of Claim 1, wherein reading an output from at least one of the implantable sensing elements comprises reading an output from an implantable sensing element that responds to blood oxygen saturation.
7. The method of Claim 1, wherein reading an output from at least one of the implantable sensing elements comprises reading an output from an implantable sensing element that responds to blood pressure.

8. The method of Claim 1, wherein reading an output from at least one of the implantable sensing elements comprises reading an output from an implantable sensing element that responds to glucose.
9. The method of Claim 1, wherein reading an output from at least one of the implantable sensing elements comprises reading an output from an implantable sensing element that responds to temperature.
10. The method of Claim 1, wherein reading an output from at least one of the implantable sensing elements comprises reading an output from an implantable sensing element that responds to potassium.
11. The method of Claim 1, wherein reading an output from at least one of the implantable sensing elements comprises reading an output from at least one implantable sensing element that responds to pH.
12. The method of Claim 1, further comprising administering therapy to the patient based on the output read from the at least one implantable sensing element.
13. The method of Claim 12, wherein administering therapy comprises administering therapy for myocardial ischemia.
14. The method of Claim 12, wherein administering therapy comprises administering therapy for myocardial infarction.
15. The method of Claim 12, wherein administering therapy comprises administering therapy for angina.
16. The method of Claim 12, wherein administering therapy comprises adjusting a function of an implantable cardiovascular defibrillator disposed within the patient.
17. The method of Claim 12, wherein administering therapy comprises adjusting a placement of an implantable cardiovascular defibrillator disposed within the patient.

18. The method of Claim 12, wherein administering therapy comprises administering therapy for sepsis.
19. The method of Claim 12, wherein administering therapy comprises administering therapy for septic shock.
20. The method of Claim 12, wherein administering therapy comprises administering therapy for a patient receiving extracorporeal membrane oxygenation.
21. The method of Claim 12, wherein administering therapy comprises administering therapy for a patient undergoing cardiac bypass.
22. The method of Claim 12, wherein administering therapy comprises administering therapy for a patient during dialysis.
23. The method of Claim 1, further comprising classifying a severity of a condition of the patient based on the output read from the at least one implantable sensing element.
24. The method of Claim 1, wherein the patient is in a surgical environment.
25. The method of Claim 1, wherein the patient is in an intensive care environment.
26. A method of evaluating a patient comprising:
 - implanting an implantable sensor in a patient, the implantable sensor having a housing within which are disposed a plurality of implantable sensing elements;
 - reading an output from at least one of the implantable sensing elements; and
 - evaluating the patient based on the output read from the at least one implantable sensing element,
 - wherein a plurality of parameters are read from the implantable sensor at the single site, and
 - wherein the output read from at least one of the implantable sensing elements is a quantifiable value.
27. The method of Claim 26, wherein evaluating the patient comprises evaluating the patient based on an output from an implantable sensing element that responds to lactate.

28. The method of Claim 26, wherein evaluating the patient comprises evaluating the patient based on an output from an implantable sensing element that responds to blood oxygen saturation.
29. The method of Claim 26, wherein evaluating the patient comprises evaluating the patient based on an output from an implantable sensing element that responds to blood pressure.
30. The method of Claim 26, wherein evaluating the patient comprises evaluating the patient based on an output from an implantable sensing element that responds to glucose.
31. The method of Claim 26, wherein evaluating the patient comprises evaluating the patient based on an output from an implantable sensing element that responds to temperature.
32. The method of Claim 26, wherein evaluating the patient comprises evaluating the patient based on an output from an implantable sensing element that responds to potassium.
33. The method of Claim 26, wherein evaluating the patient comprises evaluating the patient based on an output from an implantable sensing element that responds to pH.
34. The method of Claim 26, wherein evaluating the patient comprises evaluating the patient for myocardial ischemia.
35. The method of Claim 26, wherein evaluating the patient comprises evaluating the patient for myocardial infarction.
36. The method of Claim 26, wherein evaluating the patient comprises evaluating the patient for angina.
37. The method of Claim 26, wherein evaluating the patient comprises evaluating the patient having an implantable cardiovascular defibrillator.

38. The method of Claim 26, wherein evaluating the patient comprises evaluating the patient for sepsis.
39. The method of Claim 26, wherein evaluating the patient comprises evaluating the patient receiving extracorporeal membrane oxygenation.
40. The method of Claim 26, wherein evaluating the patient comprises evaluating the patient undergoing cardiac bypass.
41. The method of Claim 26, wherein evaluating the patient comprises evaluating the patient during dialysis.
42. A method of sensing multiple parameters in a triage patient comprising:
implanting an implantable sensor at a single site in the triage patient, the implantable sensor having a housing within which are disposed a plurality of implantable sensing elements; and
reading an output from at least one of the implantable sensing elements,
wherein a plurality of parameters are read from the implantable sensor at the single site, and
wherein the output read from at least one of the implantable sensing elements is a quantifiable value.
43. A method of sensing multiple parameters in field applications comprising:
implanting an implantable sensor at a single site in a patient in the field, the implantable sensor having a housing within which are disposed a plurality of implantable sensing elements; and
reading an output from at least one of the implantable sensing elements,
wherein a plurality of parameters are read from the implantable sensor at the single site, and
wherein the output read from at least one of the implantable sensing elements is a quantifiable value.